

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2003/002286**A. CLASSIFICATION OF SUBJECT MATTER**

IPC7 A47L 13/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
IPC7 A47LDocumentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/0184726 A1 (Gary William Kingry) 12 DEC. 2002	1
A	US 2002/0120994 A1 (Gernot M. Hirse) 5 SEP. 2002	1
A	JP 2001-353119 A (KAKINUMA KYUICHI) 25 DEC. 2001	1
A	KR 20-0209741 Y1 (Lee, Jum Sik) 30 OCT. 2000	1

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family


Date of the actual completion of the international search

27 FEBRUARY 2004 (27.02.2004)

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2003/002286

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002/0184726 A1	12 DEC. 2002	None	
US 2002/0120994 A1	5 SEP. 2002	AE 200112052 W1	22.02.2001
		AG 200112052 W1	22.02.2001
		AL 200112052 W1	22.02.2001
		AM 200112052 W1	22.02.2001
		AP 200112052 W1	22.02.2001
		AT 1204363 R1	15.05.2002
		AU-200061770 A5	13.03.2001
		AZ 200112052 W1	22.02.2001
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		BB 200112052 W1	22.02.2001
		CA 200112052 W1	22.02.2001
		CH 1204363 R1	15.02.2002
		DE 1204363 R1	15.05.2002
		EP 1204363 A1	15.05.2002
		GB 1204363 R1	15.05.2002
JP 2001-353119 A	25 DEC. 2001	None	
KR 20-0209741 Y1	30 OCT. 2000	None	